

Following is a detailed list of the data requirements. Please know that these lists represent a utopia of sorts. In a perfect world, if all this data were available we could make use of it. However, we recognize that this is not a perfect world and that some or much of this data may not be available. Following will be a brief description of the objectives of the project and the data requirements. - - Mark A. Jacobs

**Product – Supply Chain Structure Impacts on Cost**

This project will evaluate the effects of certain product structural complexity factors on supply cost outcomes, by comparing product structure and cost data. At the conclusion of the analysis, you will have a better understanding of what elements of the product structure drive cost (or other performance measures of interest to you). You will also have metrics that can be used as design targets or drivers in cost models. Should there be a desire to rationalize offerings within product families, this information would be quite informative about what types actions would result in the greatest benefit.

For this project, there are two levels of analysis. One is at the product family level, and the other is at the product level. The data required for the family level analysis is noted in Tables 1 and 2, and Figure 1. It includes limited information from the procurement organization regarding purchases. It also includes a product family structure diagram; this most likely would come from engineering.

Commodity	2006 Commodity Spend	2006 Commodity Volume	Supplier Name	2006 Supplier Spend for Commodity	Average Commodity Price	Volume	Other OEM's Supplied*
<b>Commodity Name 1</b>	Dollars	Units	Supplier 1	Dollars	Dollars	Units	Names
			Supplier 2	Dollars	Dollars	Units	Names
			Supplier N	Dollars	Dollars	Units	Names
<b>Commodity Name 2</b>	Dollars	Units	Supplier 1	Dollars	Dollars	Units	Names
			Supplier 2	Dollars	Dollars	Units	Names
			Supplier N	Dollars	Dollars	Units	Names
<b>Commodities Currently in Database:</b>		Weatherstrips		Transfer Case			
		Audio Head Units		Front Rotors			
		Exterior Mirrors		Seat belts & Air Bags			
		Wiper Modules		Belt Retractors			
		Cluster & Gages		Propshafts			

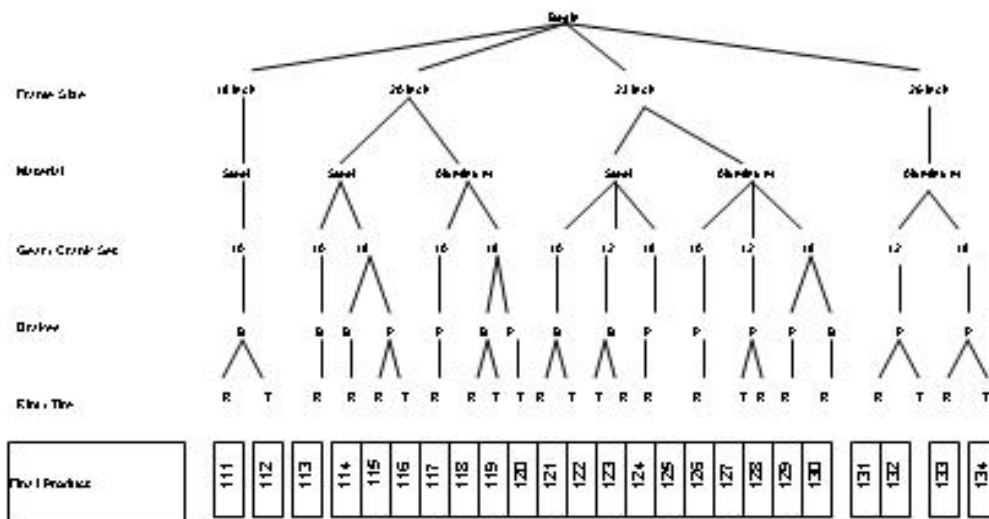
**Table 1**

<b>Potential other categories of analysis</b>	<b>Units</b>
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Engineering support	Man-hours / \$
Procurement support	Man-hours / \$ / # expedites
Quality	Defect rate / Warranty \$
Service	Service call cost
Inventory	Units / \$ / spoilage rate / fill rate
Delivery performance	% on time deliveries / # days late per event

**Table 2**

### Road Bike



**Figure 1**